

Patent claims

1. Image detector for an x-ray image with a luminophore layer (3) and a protective layer (1) lying over this
5 characterized in that the protective layer (1) is hardened in a region (7) not abutting the luminophore layer (3).
2. Image detector according to claim 1,
characterized in that the hardened region (7) of the protective layer (1) is hardened
10 by electron beam treatment.
3. Image detector according to any of the preceding claims,
characterized in that the protective layer (1) is comprised of poly-parameter-
xylilene [sic].
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4. Image detector according to any of the preceding claims,
characterized in that the luminophore layer (3) is a needle image plate.
5. Image detector according to any of the preceding claims,
20 characterized in that the luminophore layer (3) is comprised of alkali halogenides or alkaline earth halogenides, for example from CsBr:Eu, BaFBr:Eu, RbBr:Tl, CsBr:Ga, CsI:Na or CsI:Tl.
6. Method for production of a polymer protective layer (1) on an image
25 detector for an x-ray image that comprises a luminophore layer (3), whereby in a first method step (13) the protective layer (1) is vapor-deposited on the luminophore layer (3), and in a second method step (15) a region (7) of the protective layer (1) that does not abut on the luminophore layer (3) is hardened.
- 30 7. Method according to claim 6,

characterized in that the hardening ensues in a second method step (15) via electron beam treatment.

8. Method according to claim 6 or 7,
5 characterized in that the luminophore layer (3) is pre-treated via a plasma treatment in method step (11) preceding the first method step (13).